BRUHAT BANGALORE MAHANAGARA PALIKE

Name of work: Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.
Est cost: 25.00 lakhs

PRE- measurement

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Agency: Sri.Vishnu M.Gowda

Name of work: Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.

order Amount:-1877810.00

Work

Sl NO	Description of work	ch	No	L	B	D	QTY	
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications..							
	RCC Drain							
	Byatarayanapura-near Premamma house	0-30	1	30	0.9	0.9	24.30	
		30-43	1	13	0.9	0.9	10.53	
	Chikka siddappa layout	0-30	1	30	0.65	0.9	17.55	
		30-40	1	10	0.65	0.9	5.85	
	(avg width= 0.70,0.95,1.10)	40-53	1	13	0.7	1.2	10.92	
	Yogeshwar nagara							
	12th cross	0-24	2	24	0.8	0.75	28.80	
	11th cross	0-36	2	36	0.8	0.75	43.20	
							141.15	

NDM AE 20/5/21

20/5/21

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

	CC pavement							
	Chikka siddappa layout							
	(Avg width= 4.5,3.75)	0-15	1	15	4.12	0.3	18.54	
		15-30	1	15	2.90	0.3	13.05	
		30-45	1	15	2.90	0.3	13.05	
		45-60	1	15	3.10	0.3	13.95	
		60-77	1	17	3.30	0.3	16.83	
	1st cross sneha nagara to khasinagara							
		0-31	1	31	2.2	0.3	20.46	
		31-54	1	23	2.2	0.3	15.18	
	Yogeshawaranagara							
	12th cross	0-24	1	24.00	4.00	0.10	9.60	
	11th cross	0-30	1	30.00	4.80	0.10	14.40	
		30-36	1	6.00	5.10	0.10	3.06	
	10th cross		1	12.00	4.00	0.10	4.80	
							142.92	
	Over burden earth		1	15	1.5	0.9	20.25	
			1	7	2.1	0.7	10.29	
							30.54	
	Deductions for manholes							
	Chikka siddappa layout		5	0.785		1	3.93	
					cum		**310.69**	

C.A.E

21/5/21

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

NDP
AE(W-7)
21/5/21

2	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications							
	RCC Drain							
	Byatarayanapura-near Premamma house	0-30	1	30.0	0.9	0.15	4.05	
		30-43	1	13.0	0.9	0.15	1.76	
	Chikka siddappa layout	0-30	1	30.0	0.9	0.15	4.05	
		30-40	1	10.0	0.9	0.15	1.35	
		40-53	1	13.0	0.9	0.15	1.76	
	Yogeshwar nagara							
	12th cross	0-24	2	24.0	0.8	0.15	5.76	
	11th cross	0-36	2	36.0	0.8	0.15	8.64	
							27.36	NDP 01/6/21
	CC pavement							
	Chikka siddappa layout							
	(Avg width= 4.5,3.75)	0-15	1	15.00	4.12	0.15	9.27	
		15-30	1	15.00	2.90	0.15	6.53	
		30-45	1	15.00	2.90	0.15	6.53	
		45-60	1	15.00	3.10	0.15	6.98	
		60-77	1	17.00	3.30	0.15	8.42	
	1st cross sneha nagara to khasinagara							
		0-31	1	31.00	2.20	0.15	10.23	
		31-54	1	23.00	2.20	0.15	7.59	
	Yogeshawaranagara							
	12th cross	0-24	1	24.00	4.00	0.15	14.40	
	11th cross	0-30	1	30.00	4.80	0.15	21.60	
		30-36	1	6.00	5.10	0.15	4.59	
	10TH Cross		1	12.00	4.00	0.15	7.20	
							103.32	
	Deductions for manholes		5	0.785		0.15	0.59	NDP
					cum		130.09	02/6/21
					Qty Ltd to		115.50	

C & R 1/6/21

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

C & R 2/6/21

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer

Page 3

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

4	**Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications**							
		tonne		L	no of rods	le of u bar	Total length	
	LHS						**10mm**	8mm
	Main rod	0-30	1	30	335	1.8	603	
	distribution		1	30	7	30		210
	Main rod	30-43	1	13	145	1.8	261	
	distribution		1	13	7	13		91
	Main rod	0-30	1	30	335	1.8	603	
	distribution		1	15	7	15		105
	Main rod	30-40	1	10	115	1.5	172.5	
	distribution		1	13	7	13		91
	Main rod	40-53	1	13	150	2	300	
	distribution		1	30	7	30		210
	Main rod	0-24	1*2	30	335	1.8	1206	
	distribution		1*2	30	7	30		420
	Main rod	0-36	1*2	30	335	1.8	1206	
	distribution		1*2	30	7	30		420
	covering slabs							
	10mm dia at 0.15c/c		70	5	0.75		262.5	
			70	4	0.6		168	
							4782	**1547**
							0.62 kg/cum	0.39kg/cum
							2964.84	603.33
							3568.17	**2.95**
							3.56	

Assistant Executive Engineer
Kudlighatti Sub Division
BBMP, Bangalore

5	**Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge**							
		sqm						
	RCC DRAIN							
	Byatarayanapura-near Premamma house							
		0-30	4	30.00		0.60	72.00	
		30-43	4	13.00		0.60	31.20	
	Chikka siddappa layout							
		0-30	4	30.00		0.60	72.00	
		30-40	4	10.00		0.60	24.00	
		40-53	4	13.00		0.60	31.20	
	Yogeshwar nagara							
	12th cross	0-24	8	24.00		0.60	115.20	
	11th cross	0-36	8	36.00		0.60	172.80	
							518.40	
	CC pavement							
	Chikka siddappa layout							
		0-15	2.00	15.00		0.30	9.00	
		15-30	2.00	15.00		0.30	9.00	
		30-45	2.00	15.00		0.30	9.00	
		45-60	2.00	15.00		0.30	9.00	
		60-77	2.00	17.00		0.30	10.20	
	1st cross sneha nagara to khasinagara							
		0-31	2.00	31.00		0.30	18.60	
		31-54	2.00	23.00		0.30	13.80	
	Yogeshawaranagara							
	12th cross	0-24	2.00	24.00		0.30	14.40	
	11th cross	0-30	2.00	30.00		0.30	18.00	
		30-36	2.00	6.00		0.30	3.60	
		0	2.00	12.00		0.30	7.20	
	covering slabs							
	Bottom surface		70	0.6	0.75		31.50	
	Sides	1*2	70	0.6		0.20	8.40	
		1*2	70	0.75		0.20	10.50	
							172.20	
					Sqm		690.60	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

5/6/21

NDP DE(LSI) 5/6/21

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

3	**Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications.**							
	Byatarayanapura-near Premamma house							
	bottom	0-30	1	30.0	0.90	0.15	4.05	
		30-43	1	13.0	0.90	0.15	1.76	NDD 4/6/21
	Side wall		2	30.0	0.15	0.90	8.10	
			2	13.0	0.15	0.90	3.51	9/6/21
	Chikka siddappa layout	0-30	1	30.0	0.65	0.15	2.93	
		30-40	1	10.0	0.65	0.15	0.98	
		40-53	1	13.0	0.70	0.15	1.37	NDD 4/6/21
	Side wall		2	30.0	0.15	0.50	4.50	
			2	10.0	0.15	0.50	1.50	
			2	13.0	0.15	0.90	3.51	9/6/21
	Yogeshwar nagara							
		0-24	2	24.0	0.80	0.15	5.76	
		0-36	2	36.0	0.80	0.15	8.64	NDD 4/6/21
	Side wall							
			4	24.0	0.15	0.45	6.48	
			4	36.0	0.15	0.45	9.72	9/6/21
							62.79	
	Covering slabs		66	0.6	0.75	0.2	5.94	
	Chikka siddappa layout				cum		68.73	NDD 29/7/21
					Qty Ltd to		53.55	

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

6	**Providing and fixing 10cms thick pre cast RCC covering slab** using reinforced ment concrete **M20 mix with stone aggregate 20mm and** down size including **centring shuttering reinforcement and bar bending machine** mixed concrette laid **in layers not exceeding 15 cm thick wellcompacted cost of** all materials labour curing complete as per specfications						
	Byatarayanapura-near Premamma house						
		0-30	50	0.6	0.75		22.50
		30-43	21	0.6	0.75		9.45
	Yogeshwar nagara						
		0-24	40	0.6	0.9		21.60
		0-36	60	0.6	0.9		32.40
	Vayunanandhan layout		13	0.6	0.75		5.85
					Total		91.80

C4R
29/7/21

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

NDP
DE(TS)
29/7/21

Assistant Engineer

Page 7

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavements using grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregate at 0.46 cum, coarse and fine aggregate confirming to IS:383-2016, with superplastisiser @3lts confirming to IS9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades textured machine, and curing including cost of all materials, labour, hire charges of machineries, all lead and lift charges etc.., complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)							
		cum						
	Chikka siddappa layout							
	(Avg width= 4.5,3.75)	0-15	1	15.00	4.12	0.10	6.18	
		15-30	1	15.00	2.90	0.10	4.35	
		30-45	1	15.00	2.90	0.10	4.35	
		45-60	1	15.00	3.10	0.10	4.65	
		60-77	1	17.00	3.30	0.10	5.61	
	1st cross sneha nagara to khasinagara							
		0-31	1	31.00	2.20	0.10	6.82	
		31-54	1	23.00	2.20	0.10	5.06	
	Yogeshwar nagara							
	12th cross	0-24	1	24	4	0.10	9.60	
	11th cross	0-30	1	30	4.8	0.10	14.40	
		30-36	1	6	5.1	0.10	3.06	
		0	1	12	4	0.10	4.80	
			•		cum		68.88	NDP AE(NT) 29/7/21
					Qty Ltd to		68.0	

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

8	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift.							
	Chikka siddappa layout							
	(Avg width= 4.5,3.75)	0-15	1	15	4.12		61.80	
		15-30	1	15	2.90		43.50	
		30-45	1	15	2.90		43.50	
		45-60	1	15	3.10		46.50	
		60-77	1	17	3.30		56.10	
	1st cross sneha nagara to khasinagara							
		0-31	1	31	2.20		68.20	
		31-54	1	23	2.20		50.60	
	Yogeshwar nagara							
		0-24	1	24	4		96.00	
		0-30	1	30	4.8		144.00	
		30-36	1	6	5.1		30.60	
			1	12	4		48.00	
					Sqm		688.80	
					Qty Ltd to		680.00	NOP DE
9	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH							
	qty vide ideal No.(1)		Page no.1			cum	310.69	

29/7/21

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division

Executive Engineer
Byatarayanapura Division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Assistant Engineer

(contractor)

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

BRUHAT BANGALORE MAHANAGARA PALIKE

Bill - **ABSTRACT**

Name of work: Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.

Est cost: 25.00 lakhs

BRUHAT BANGALORE MAHANAGARA PALIKE

KODIGEHALLI SUB DIVISION- WARD 7 BYATARAYANAPURA

Name of work — Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.

Job code — 007-20-000088

P-code — 1771

Agency — Sri.Vishnu .M.Gowda

First and final bill

Sl NO	Description	unit	Qty	RATE	AMOUNT
1	Earthwork excavation by manual means in rodinary soil involving an average horizontal throw upto 2 m and an average lift upto 1.5m, excavated surafce levelled and sides neatly dressed, the disposed earth to be levelled neatly after breaking clods complete as per specifications..				
	Name of work	cum			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Page No - 162		310.69		
	Previous Qty		0.00		
	Total Qty		310.69		31069.00
	BOQ Qty		312.00		
	Qty for payment		310.69	100.00	31068.50
2	Providing and laying in position plain cement concrete of Mix 1:3:6 with OPC @ 220kgs, with 40mm and down size graded granite metal coarse aggregates @0.892cum and fine aggregates @ 0.465cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM curing complete as per specifications				
	Name of work	cum			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Page no. 3.		115.50		
	Previous Qty		0.00		
	Total Qty		115.50		
	BOQ Qty		115.50		
	Qty for payment		115.50	3500.00	404250.00

Ashalf. N.D.
AE(WO1)

Assistant Engineer
Kodigehalli Sub Division
BBMP, Bangalore

(Contractor)

4	Providing TMT Steel Reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications				
	Name of work	TONNE			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Page - 4		2.95		
	Previous Qty		0.00		
	Total Qty		2.95		
	BOQ Qty		2.95		
	Qty for payment		2.95	65000.00	191750.00
5	Providing and removing Centering, shuttering, strutting, propping etc., for columns, pillars, piers, abutments, post and struts, square / rectangular slabs /side walls polygon in plan including cost of materials, labour complete as per specification and directions of the Engineer in charge				
	Name of work	Sqm			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Page - 5		690.60		
	Previous Qty		0.00		
	Total Qty		690.60		
	BOQ Qty		816.00		
	Qty for payment		690.60	350.00	241710.00
3	Providing and laying in position plain cement concrete of mix 1:2:4 with cement @ 240 kgs, with 20 mm and down size graded granite matel coarse aggregates @ 0.878 cum and fine aggragtes @ 0.53cum, machine mixed concrete laid in layers not eceeding 15 cms, thick well compacted, in foundation, plinth and cills including cost of all materials, labour HOM machinery curing complate as per specifications.				
	Name of work	cum			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Page no: 6		53.55		
	Previous Qty		0.00		
	Total Qty		53.55		
	BOQ Qty		53.55		
	Qty for payment		53.55	5000.00	267750.00

BBMP. N.D.
AE(Ist)

(Contractor)

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

6	Providing and fixing 10cms thick pre cast RCC covering slab using reinforced cement concrete M20 mix with stone aggregate 20mm and down size including centring shuttering reinforcement and bar bending machine mixed concrette laid in layers not exceeding 15 cm thick wellcompacted cost of all materials labour curing complete as per specfications				
	Name of work	Sqm			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Page no. 7		91.80		
	Previous Qty		0.00		
	Total Qty		91.80		
	BOQ Qty		91.80		
	Qty for payment		91.80	1700.00	156060.00
7	Cement concrete pavement.Construction of un-reinforced plain cement concrete pavements using grade concrete M30 over a prepared base with OPC coarse aggregate at 0.69 cum, fine aggregate at 0.46 cum, coarse and fine aggregate confirming to IS:383-2016, with superplastisiser @3lts confirming to IS9103-2008 mixed in a concrete mixer of not less than 0.6 cum capacity and appropriate weigh batcher as per approved mix design, laid in approved fixed side form work (steel channel, laying and fixing of 125 micron thick polythene film, wedges, steel plates including levelling the form work as per drawing). Spreading the concrete with shovels, rackers compacted using needle, screed and plate vibrator and finished in a continuous operation including provision of contraction, expansion, construction and longitudinal joints including groove cutting charges, joint filler, separation membrane, selant primer, joint sealant, admixtures as approved, curing compound, finishing to lines and grades textured machine, and curing including cost of all materials, labour, hire charges of machineries, all lead and lift charges etc.., complete as per specifications. - M30 (at 360Kg per cum coarse aggregate @ 0.69cum and fine aggregate @ 0.46cum)				
	Name of work	cum			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Page no. 8		68.00		
	Previous Qty		0.00		
	Total Qty		68.00		
	BOQ Qty		68.00		
	Qty for payment		68.00	6500.00	442000.00

M.N.D.
AE(Ltg)

(Contractor)

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

8	Vaccum De-watering with vaccum pump and suction mat and compaction with skin floater clubbed with floating disc including cst of generator, HOM of machinery screed vibaratory, power floater, blade and disc etc., with all leads and lift.				
	Name of work	sqm			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Page no. 8.		680.00		
	Previous Qty		0.00		
	Total Qty		680.00		
	BOQ Qty		680.00		
	Qty for payment		680.00	100.00	68000.00
9	Loading and unloading of stone boulder/stone aggregates/ sand/ kanker/ moorum. KSRRB M100-1:Placing tipper at loading point loading with front end loading, dumping turning for return trip, excluding time for haulage and return trip complete as per specification MORTH				
	Name of work	cum			
	Improvements to roads and Drains in Amruthalli & surrounding areas in ward no.07 Byataranapura.				
	Present Qty Item no. 1 Page no-9.		310.69		
	Previous Qty		0.00		
	Total Qty		310.69		
	BOQ Qty		312.00		31069.00
	Qty for payment		310.69	100.00	31068.50
			TOTAL		1833657.00

1833658.00

Assistant Engineer
Ward No.07

Assistant Executive Engineer
Kodigehalli Sub division

Assistant Executive Engineer
Kodigehalli Sub Division
BBMP, Bangalore

Executive Engineer
Byatarayanapura Division